

Abstract

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A sunroof assembly has a frame, including two tracks, that mount to a vehicle roof. An arm is slidably mounted in each track, with each arm including attachment points for mounting a panel or a bracket holding a panel thereto. A trolley is slidably mounted in each track and engages the arm. Each trolley has a threaded bore in meshing engagement with a power screw rotatably mounted in the track. A single motor is coupled via a transmission to two flexible drive cables, each of which is connected to one of the power screws. This basic structure minimizes the component count of the sunroof, and hence its manufacturing costs.